



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/547,415	04/11/2000	Faquir C. Jain	CONN-2	4421
7590	11/26/2003		EXAMINER	
Hung Chang Lin 8 Schindler Court Silver Spring, MD 20903			GARRETT, DAWN L	
			ART UNIT	PAPER NUMBER
			1774	

DATE MAILED: 11/26/2003

22

Please find below and/or attached an Office communication concerning this application or proceeding.

CL022

<b>Advisory Action</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/547,415	JAIN ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Dawn Garrett	1774

*--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

THE REPLY FILED 12 November 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

**PERIOD FOR REPLY [check either a) or b)]**

- a)  The period for reply expires \_\_\_\_ months from the mailing date of the final rejection.
- b)  The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.  
ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1.  A Notice of Appeal was filed on \_\_\_\_\_. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2.  The proposed amendment(s) will not be entered because:
  - (a)  they raise new issues that would require further consideration and/or search (see NOTE below);
  - (b)  they raise the issue of new matter (see Note below);
  - (c)  they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
  - (d)  they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet.

3.  Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.
4.  Newly proposed or amended claim(s) \_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5.  The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
6.  The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7.  For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: 43.

Claim(s) objected to: \_\_\_\_\_.

Claim(s) rejected: 1-3, 5-8, 10-16, 18, 20, 22, 25-27, 29, 38-42, and 44.

Claim(s) withdrawn from consideration: \_\_\_\_\_.

8.  The drawing correction filed on \_\_\_\_ is a) approved or b) disapproved by the Examiner.

9.  Note the attached Information Disclosure Statement(s)( PTO-1449) Paper No(s). \_\_\_\_\_.

10.  Other: \_\_\_\_\_.

Continuation of 2. NOTE: The proposed amendments are of a scope not previously considered and would require further search and consideration. For example, "second p-type layer" undoped as recited in proposed claim 2 has not been previously considered. In addition, numerous problems with antecedent basis remain in the proposed claims. For example, proposed claim 11 recites a p-doped Si layer, proposed claim 13 recites the p-doped wide energy gap semiconductor layer, and claim 22 recites the second p-doped semiconductor layer but there is not a "p-doped" layer in independent claim 1.

Continuation of 5. does NOT place the application in condition for allowance because: Applicant's proposed amendment would require further consideration and search, because several proposed added terms and limitations have not been previously searched or considered. In addition, the proposed amendment creates further antecedent basis issues with regard to the dependent claims. It is further noted that applicant has not addressed the objection to claim 42 set forth in paper no. 16, paragraph 14 and the objection to the specification. The rejections of record are respectfully maintained.

CYNTHIA H. KELLY  
SUPPLY PATENT EXAMINER  
TECHNOLOGY CENTER 1700

